

CURRICULUM VITAE

Andrei Popescu

Born on September, 6, 1978, in Craiova, Romania
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Current Position:

- Research Assistant at the Department of Computer Science, University of Illinois at Urbana-Champaign;
- Researcher at the Institute of Mathematics “Simion Stoilow” of the Romanian Academy.

Scientific Interests

Formal Methods in Computer Science. Programming Language Semantics. Fuzzy Logic and Systems. Model Theory.

Education

- Ph.D. student in Computer Science, University of Illinois at Urbana-Champaign (advisor - Prof. Grigore Roşu), since August 2004.
- Ph.D. degree in Mathematics, University of Bucharest (Ph.D. advisor - Prof. George Georgescu), June 2005.
- M.S. in Theoretical Computer Science, University of Bucharest, June 2003.
- Participant as a student at the Marktoberdorf International Summer School on Models, Algebras and Logic of Engineering Software, 30 July - 11 August 2002.
- B.A. in Computer Science, University of Bucharest, June 2001.

Professional and Academic Experience

From June 2005: Researcher at the Institute of Mathematics “Simion Stoilow” of the Romanian Academy.

From February 2003: Junior Assistant Professor at the Department of Fundamentals of Computer Science, Faculty of Mathematics and Computer Science, University of Bucharest, Romania.

February 2001 - January 2003: Research and Teaching Assistant at the same department.

Papers on Formal Methods

1. A semantic approach to interpolation (with Traian Șerbănuță and Grigore Roșu). FOSSACS 2006. To be presented.
2. An institution-independent proof of Robinson consistency theorem (with Daniel Găină). *Studia Logica*. To appear.
3. An institution-independent generalization of Tarski's elementary chain theorem (with Daniel Găină). *Journal of Logic and Computation*. To appear.
4. Behavioral extensions of institutions (with Grigore Roșu). CALCO 2005, pp. 331-347.
5. Languages generated using an abstract catenation. *Grammars*, 7, 2004, pp. 31-40.

Papers on Fuzzy Systems, Logic and Algebra

1. Some algebraic theory for many-valued relation algebras. *Algebra Universalis*. To appear.
2. A common generalization for MV-algebras and Łukasiewicz-Moisil algebras. *Archive for Mathematical Logic*. To appear.
3. A new class of probabilities on Łukasiewicz-Moisil algebras (with George Georgescu). *Journal of Multiple-Valued Logic and Soft Computing*. To appear.
4. Order convergence and distance on Łukasiewicz-Moisil algebras (with George Georgescu and Ioana Leuştean). *Journal of Multiple-Valued Logic and Soft Computing*. To appear.
5. Łukasiewicz-Moisil relation algebras. *Studia Logica* 81(2), 2005, pp. 167-190.
6. Similarity convergence in residuated lattices (with George Georgescu). *Logic Journal of IGPL*, 13, 2005, pp.389 - 413.
7. Many-valued relation algebras. *Algebra Universalis* 53, 2005, pp.73-108.
8. Non-commutative fuzzy structures and pairs of weak negations (with George Georgescu). *Fuzzy Sets and Systems* 143, 2004, pp.129-155.
9. A general approach to fuzzy concepts. *Mathematical Logic Quarterly* 50(3), 2004, pp. 1-17.
10. Non-dual fuzzy connections (with George Georgescu). *Archive for Mathematical Logic* 43, 2004, pp.1009-1039.
11. Non-commutative fuzzy Galois connections (with George Georgescu). *Soft Computing*, 7(7), 2003, pp.458-467.
12. Closure operators and concept equations in non-commutative fuzzy logic (with George Georgescu). *Tatra Mountains Publication*, 27, 2003, pp.67-90.
13. Concept lattices and similarity in non-commutative fuzzy logic (with George Georgescu). *Fundamenta Informaticae*, 53(1), 2002, pp.23-54.

Presentations

1. Fuzzy concepts as pointwise Galois connections. Conference on residuated structures and many-valued logics. Patras, Greece, 2-5 June 2004.
2. Galois connections and duality in fuzzy logic. Conference of commemoration of Grigore C. Moisil. May 24, 2004, University of Craiova, Romania.
3. On non-commutative fuzzy structures (with George Georgescu). Symposium in the honor of Professor Dragoş Vaida, June, 6, 2003, University of Bucharest.
4. Łukasiewicz-Moisil relation algebras. Conference of commemoration of Grigore C. Moisil, May 24, 2003, University of Bucharest.
5. Fuzzy relation algebras. Conference on fuzzy logical structures organized by The Group of Logic and Universal Algebra, September 2002, The Academy of Economical Sciences, Bucharest.
6. (between 2001 and 2004) Several presentations, at the weekly seminar on fuzzy logic organized by The Group of Logic and Universal Algebra.

Prizes and Awards

Saburo Muroga Fellowship 2004-2005, offered by the Department of Computer Science, UIUC.

Refereed Papers for

Theoretical Computer Science, Journal of Logic and Computation, Information Sciences, Fuzzy Sets and Systems, Soft Computing.